

Background

Venoms research has been continuously enhanced by advances in technology. In particular, the emergence of ‘omic’ technologies at the turn of the twenty-first century has revolutionized biological research. The breakthrough experienced by venom research in the last decade is due to the development and application of omics technology to the qualitative and quantitative profiling of the venom gland mRNA expression (venom gland transcriptomics) and the precise identification of the components expressed in the venom (venomics). Both approaches have been fueled by advances on sequencing technologies and improvements on **RNASeq**. However, in the absence of a genomic reference, several approaches have been developed in order to analyze mRNA expression data from Next Generation Sequencing technologies which are not as straightforward as those developed when a genome reference sequence is available.

de novo RNA-Seq assembly

